

Title (en)
Apparatus for and method of foam molding

Title (de)
Vorrichtung und Verfahren zum Formen von Schaum

Title (fr)
Appareil et procédé pour le moulage d'une mousse

Publication
EP 1512509 A3 20050316 (EN)

Application
EP 04029297 A 19991104

Priority
• EP 99961603 A 19991104
• US 18598798 A 19981104
• US 33594699 A 19990618

Abstract (en)
[origin: EP1512509A2] A system comprising: a barrel (32) having an inlet (46), at an upstream end (34), designed to receive a polymeric article precursor, and an outlet (67) at a downstream end (36), the barrel (32) including a blowing agent port (54), between the upstream end and the downstream end, fluidly connectable to a blowing agent source (56) for introducing blowing agent from the source into the precursor in the barrel (32) to form a mixture of precursor material and blowing agent in the barrel; a metering device (58) having an inlet connected to the blowing agent source (56) and an outlet connected to the barrel, the metering device constructed and arranged to meter the mass flow rate of the blowing agent from the blowing agent source to the blowing agent port; and a molding chamber (37) having an inlet (70) in fluid communication with the outlet of the barrel to receive the mixture of precursor material and blowing agent from the barrel. <IMAGE>

IPC 1-7
B29C 44/34; **B29C 44/60**

IPC 8 full level
B29C 45/26 (2006.01); **B29C 44/00** (2006.01); **B29C 45/00** (2006.01); **B29C 45/17** (2006.01); **B29C 45/76** (2006.01); **B29K 23/00** (2006.01); **B29K 25/00** (2006.01); **B29K 105/04** (2006.01)

CPC (source: EP KR)
B29C 44/00 (2013.01 - EP KR); **B29C 44/0461** (2013.01 - EP); **B29C 44/10** (2013.01 - EP); **B29C 44/3446** (2013.01 - EP); **B29C 44/348** (2013.01 - EP); **B29K 2023/06** (2013.01 - EP); **B29K 2023/12** (2013.01 - EP); **B29K 2025/00** (2013.01 - EP); **B29K 2027/06** (2013.01 - EP); **B29K 2033/26** (2013.01 - EP); **B29K 2077/00** (2013.01 - EP); **B29K 2105/046** (2013.01 - EP)

Citation (search report)
• [DY] WO 9808667 A2 19980305 - TREXEL INC [US], et al
• [Y] US 4211523 A 19800708 - HUNERBERG EDWARD C [US]
• [A] EP 0461298 A1 19911218 - OWENS ILLINOIS PLASTIC PROD [US]
• [A] EP 0776745 A1 19970604 - SUNSTAR ENGINEERING INC [JP], et al
• [A] US 5098267 A 19920324 - CHENG ALAN T [US]

Cited by
CN112714688A; EP2246172A3; US10946350B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1512509 A2 20050309; **EP 1512509 A3 20050316**; **EP 1512509 B1 20081008**; AT E410285 T1 20081015; DE 69939715 D1 20081120; JP 2002528306 A 20020903; JP 4726298 B2 20110720; KR 100572943 B1 20060424; KR 20010103638 A 20011123

DOCDB simple family (application)
EP 04029297 A 19991104; AT 04029297 T 19991104; DE 69939715 T 19991104; JP 2000579423 A 19991104; KR 20017005551 A 20010503